



# WORKSHEET 37

## 12-Hour and 24-Hour Time

Year 6 Mathematics – Measurement  
Australian Curriculum v9.0

### Time Systems Reference

#### Understanding Time Formats:

**12-Hour Time:** Uses am (morning) and pm (afternoon/evening). Example: 3:00 pm, 9:15 am.

**24-Hour Time:** Counts from 00:00 (midnight) to 23:59. No am/pm needed.

#### Key Conversions:

- Morning times (am): Stay the same. Example: 9:15 am = 09:15
- Afternoon/evening (pm): Add 12 to the hour. Example: 3:00 pm = 15:00
- Midnight: 12:00 am = 00:00
- Noon: 12:00 pm = 12:00

#### TikZ Digital Clock:

15:00

24-hour time

### Section 1: Converting to 24-Hour Time (Fluency)

1. Convert 3:00 pm to 24-hour time.

Answer: \_\_\_\_\_



2. Convert 9:15 am to 24-hour time.

Answer: \_\_\_\_\_

3. Convert 6:30 pm to 24-hour time.

Answer: \_\_\_\_\_

4. Convert 11:45 am to 24-hour time.

Answer: \_\_\_\_\_

5. Convert 8:00 pm to 24-hour time.

Answer: \_\_\_\_\_

6. Convert 12:00 pm (noon) to 24-hour time.

Answer: \_\_\_\_\_

### Reward Time!



#### Time Lord!

*Why did the clock go to the principal's office?  
Because it was tocking too much in class!*

### Section 2: Converting to 12-Hour Time (Reasoning)

7. Convert 18:30 to 12-hour time.

Answer: \_\_\_\_\_



8. Convert 00:05 to 12-hour time.

Answer: \_\_\_\_\_

9. Convert 14:20 to 12-hour time.

Answer: \_\_\_\_\_

10. Convert 23:45 to 12-hour time.

Answer: \_\_\_\_\_

11. A train departs at 16:15. Write this time in 12-hour format.

Answer: \_\_\_\_\_

12. A bakery opens at 05:30. Write this time in 12-hour format.

Answer: \_\_\_\_\_

### Reward Time!



#### Schedule Superstar!

*What did one clock say to the other clock?*

*"Look! No hands!"*

### Section 3: Time Differences (Challenge)

13. What time is 20 minutes after 14:50?

Answer: \_\_\_\_\_



14. A movie starts at 19:00 and ends at 21:15. How long is the movie?

Answer: \_\_\_\_\_

15. If it is currently 13:25, what time was it 45 minutes ago?

Answer: \_\_\_\_\_

16. A concert begins at 18:45 and lasts for 1 hour and 50 minutes. What time does it end?

Answer: \_\_\_\_\_

17. Sam leaves home at 07:15 and arrives at school at 08:05. How long is the journey?

Answer: \_\_\_\_\_

**Reward Time!**



**Time Lord!**

*Why did the student eat their homework during time class?*

*Because the teacher said it was a piece of cake!*

**Fantastic Work!**

You've mastered time conversions! Keep practicing those time calculations!



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## Answer Key

### 12-Hour and 24-Hour Time

#### Section 1: Converting to 24-Hour Time

1. 15:00
2. 09:15
3. 18:30
4. 11:45
5. 20:00
6. 12:00

#### Section 2: Converting to 12-Hour Time

7. 6:30 pm
8. 12:05 am
9. 2:20 pm
10. 11:45 pm
11. 4:15 pm
12. 5:30 am



### Section 3: Time Differences

13. 15:10

14. 2 hours and 15 minutes (or 2 hours 15 minutes)

15. 12:40

16. 20:35

17. 50 minutes





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## Timetables & Duration

Year 6 Mathematics – Measurement  
Australian Curriculum v9.0

### Reading Timetables Reference

#### Understanding Timetables:

A **timetable** shows when events happen. It helps us plan journeys and activities.

#### Key Skills:

- Read across rows to find departure/arrival times
- Read down columns to compare different services
- Calculate duration by finding the difference between times

#### Sample Bus Timetable:

Bus	Station A	Station B	Station C
Bus 1	09:00	09:30	10:00
Bus 2	09:45	10:15	10:45
Bus 3	10:00	10:30	11:00

#### Analog Clock:



Shows 10:30

### Section 1: Reading a Timetable (Fluency)



Use this bus timetable to answer questions 1–6:

Bus	Station A	Station B	Station C
Bus 1	09:00	09:30	10:00
Bus 2	09:45	10:15	10:45
Bus 3	10:00	10:30	11:00

1. What time does Bus 1 leave Station A?

Answer: \_\_\_\_\_

2. Which bus arrives at Station C at 10:00?

Answer: \_\_\_\_\_

3. What time does Bus 2 arrive at Station B?

Answer: \_\_\_\_\_

4. How long does Bus 1 take to travel from Station A to Station C?

Answer: \_\_\_\_\_

5. Which bus leaves Station A at 10:00?

Answer: \_\_\_\_\_

6. If you need to be at Station B by 10:00, which is the latest bus you can catch from Station A?

Answer: \_\_\_\_\_



### Reward Time!



#### Schedule Superstar!

*Why did the timetable go to the doctor?  
Because it had too many minutes to spare!*

### Section 2: Calculating Journey Times (Reasoning)

7. A bus leaves at 09:00 and arrives at 09:45. How long is the journey?

Answer: \_\_\_\_\_

8. A train journey takes 1 hour and 15 minutes. If the train leaves at 13:00, what time does it arrive?

Answer: \_\_\_\_\_

9. Maya's dance class starts at 16:30 and finishes at 18:00. How long is the class?

Answer: \_\_\_\_\_

10. A flight departs at 11:45 and lands at 14:20. How long is the flight?

Answer: \_\_\_\_\_

11. Jack left home at 07:50 and arrived at the library at 08:35. How long did it take?

Answer: \_\_\_\_\_



12. A swimming lesson lasts 50 minutes. If it starts at 15:15, when does it finish?

Answer: \_\_\_\_\_

### Reward Time!



#### Time Lord!

*What's a math teacher's favorite type of transportation?*

*Times tables! ×*

### Section 3: Complex Planning (Challenge)

Use this train timetable to answer questions 13–17:

Train	City Center	Suburbs	Beach
Express 1	08:00	08:25	08:50
Express 2	09:30	09:55	10:20
Express 3	11:00	11:25	11:50

13. You need to be at the Beach by 10:00. Which train should you catch from City Center, and will you arrive on time?

Answer: \_\_\_\_\_

14. A flight leaves at 22:30 on Monday and takes 5 hours. What day and time does it land?

Answer: \_\_\_\_\_

15. Sarah catches Express 2 from City Center to the Beach. How long is her



journey?

Answer: \_\_\_\_\_

16. Tom needs to meet his friend at Suburbs station at 11:00. Which train should he catch from City Center, and will he be early or late?

Answer: \_\_\_\_\_

17. A concert at the Beach starts at 12:30. If you catch Express 3 from City Center, how much time do you have before the concert starts?

Answer: \_\_\_\_\_

### Reward Time!



### Schedule Superstar!

*Why was the timetable always calm?*

*Because it knew how to manage its minutes!*

### Outstanding Achievement!

You're a timetable expert! Keep up the brilliant work!



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## Answer Key

### Timetables & Duration

#### Section 1: Reading a Timetable

1. 09:00
2. Bus 1
3. 10:15
4. 1 hour (or 60 minutes)
5. Bus 3
6. Bus 1 (arrives at Station B at 09:30)

#### Section 2: Calculating Journey Times

7. 45 minutes
8. 14:15
9. 1 hour 30 minutes (or 1 hour and 30 minutes)
10. 2 hours 35 minutes (or 2 hours and 35 minutes)
11. 45 minutes
12. 16:05



### Section 3: Complex Planning

13. Catch Express 1 at 08:00. Yes, you will arrive at 08:50, which is before 10:00.
14. Tuesday at 03:30 (or 3:30 am)
15. 50 minutes
16. Catch Express 2 at 09:30. He will be early (arrives at 09:55, which is 5 minutes before 11:00).
17. 40 minutes (arrives at 11:50; concert starts at 12:30)

## Phenomenal Achievement!

You've mastered time and timetables! You're ready for any journey!